

**Amendments to the Claims:**

1-31. (canceled)

32. (previously presented) An isolated nucleic acid having at least 99% nucleic acid sequence identity to the nucleic acid sequence of SEQ ID NO:375 wherein the nucleic acid encodes a polypeptide that inhibits the uptake of glucose or FFA (free fatty acid) by adipocyte cells.

33. (previously presented) An isolated nucleic acid comprising the nucleic acid sequence of SEQ ID NO:375.

34-37 (canceled)

38. (currently amended) The isolated nucleic acid of Claim 33 ~~comprising~~  
consisting of the nucleic acid sequence of SEQ ID NO:375.

39-43. (canceled)

44. (previously presented) A vector comprising the nucleic acid of Claim 32.

45. (previously presented) The vector of Claim 44, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.

46. (previously presented) An isolated host cell comprising the vector of Claim 44.

47. (previously presented) The host cell of Claim 46, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.